

## MECHANICAL COMPACTION HAMMER VERIFICATION PROCEDURE #6A

Revised June 14, 2002

Equipment Checked:     **MECHANICAL COMPACTOR (AASHTO T 99) (AASHTO T 180)**

Purpose:

This method provides instructions for checking the critical dimensions and drop of the proctor hammer.

Inspection Equipment Required:

1. Calipers readable to 0.001 inches
2. Tape measure readable to 1/16 inch.
3. Balance, capacity 5 kg (5000 g) readable to 1 g.
4. Molds

Tolerance:

Equipment shall meet the dimensional tolerances specified in the applicable test method.

Procedure:

1. Measure and record the diameter of the rammer face by taking two readings 90E apart.
2. Determine and record its mass to the nearest 1 g.
3. Determine and record the drop of the hammer  $18.00 \pm 0.06$  inches (T180);  $12.00 \pm 0.06$  inches (T 99).
4. Mechanical rammer shall be calibrated by ASTM D2168 Method B to give the same moisture density results as with a manually operated rammer. CENTRAL LAB USE ONLY.

## EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 6A Mechanical Rammer Proctor (AASHTO T 99 & T 180)

|   |                       |
|---|-----------------------|
| <b>Date:</b>  | <b>Calibrated by:</b> |
| <b>Previous Calibration Date:</b>   | <b>Next Due:</b>      |
| <b>Frequency:</b> 12 months   |                       |
| <b>Manufacturer:</b>  |                       |
| <b>Action Recommended:</b><br>Repair _____ Replace _____ None _____ Other _____ |                       |
| <b>Calibration Equipment</b>  | <b>Serial Number</b>  |
| Calipers, readable to 0.001"  |                       |
| Balance, 5,000 g, readable to 1 g   |                       |
| Tape Measure Readable to 1/16"  |                       |
| <b>Rammer Diameter #1</b> _____   | <b>#2</b> _____       |
| <b>Weight</b> _____   | <b>Drop</b> _____     |

| Diameter |                | Fall      | Weight           |
|----------|----------------|-----------|------------------|
| T-99     | 1.985 - 2.010" | 12± 1/16" | 5.48 - 5.52 lb.  |
| T-180    | 1.985 - 2.010" | 18± 1/16" | 9.98 - 10.02 lb. |

4/24/2002